Amendments to the Specification:

Please include the following paragraph on page 5 of the specification at line 8 and before the heading "Brief Description of the Drawings":

Another aspect of the present invention provides a computer readable medium embodying program instructions for execution by a computer, the program instructions adapting a computer to allocate bandwidth within a network domain, program instructions comprising: accessing a database including path-level data and link-level data for a path within the network domain; receiving from a network domain edge node a flow request for a path; and satisfying the flow request using the link-level data if the flow request cannot be satisfied using the path-level data. One aspect of the invention provides the above computer readable medium, wherein the path-level data includes unused bandwidth allocated to the path and a path state, the program instructions further comprising satisfying the flow request using the unused bandwidth if the path is not in a critical state and the path has enough unused bandwidth to satisfy the flow request. One aspect of the invention provides the above computer readable medium, wherein the link-level data further includes quotas of bandwidth available to a link, the program instructions further comprising allocating to each link along the path a quota of bandwidth from the quotas of bandwidth available to the link if the path does not have enough unused bandwidth to satisfy the flow request. One aspect of the invention provides the above computer readable medium, wherein the link-level data further includes a link state and the path-level data further includes a set of critical links along the path, the program instructions further comprising allocating bandwidth to each link in the set of critical links from unused bandwidth reclaimed from another path on each link.